

## SEWERAGE (42)

### *AGENCY PLAN: STATEMENT OF PURPOSE, GOALS AND BUDGET SUMMARY*

#### STATEMENT OF PURPOSE:

The Sewerage Division of the Water and Sewerage Department treats combined sewerage collected throughout the service area so that the treated effluent is in compliance with the requirements established by the U.S. Environmental Protection Agency and the Michigan Department of Natural Resources.

#### AGENCY GOALS:

The Sewerage Division is administratively part of the Detroit Water and Sewerage Department maintained as a separate fund in the City of Detroit Accounting System.

#### AGENCY FINANCIAL SUMMARY:

2005-06 <u>Requested</u>		2004-05 <u>Budget</u>	2005-06 <u>Recommended</u>	Increase (Decrease)
\$ 187,848,616	Departmental Operations	\$ 190,000,000	\$ 187,848,616	\$ (2,151,384)
150,230,400	Debt Service	142,131,400	150,230,400	8,099,000
54,869,100	Capital Appropriations	58,563,200	54,869,100	(3,694,100)
-	Bonded Capital	339,715,000	-	(339,715,000)
<u>\$ 392,948,116</u>	Total Appropriations	<u>\$ 730,409,600</u>	<u>\$ 392,948,116</u>	<u>\$ (337,461,484)</u>
 \$ 392,948,116	Departmental Revenues	 \$ 455,409,600	 \$ 392,948,116	 \$ (62,461,484)
<u>-</u>	Sale of Bonds	<u>275,000,000</u>	<u>-</u>	<u>(275,000,000)</u>
<u>\$ 392,948,116</u>	Total Revenues	<u>\$ 730,409,600</u>	<u>\$ 392,948,116</u>	<u>\$ (337,461,484)</u>
 \$ -	NET TAX COST:	 \$ -	<u><u>\$ -</u></u>	 \$ -

#### AGENCY EMPLOYEE STATISTICS:

2005-06 <u>Requested</u>		2004-05 <u>Budget</u>	04-01-05 <u>Actual</u>	2005-06 <u>Recommended</u>	Increase (Decrease)
<u>1,189</u>	City Positions	<u>1,302</u>	<u>1,006</u>	<u>1,189</u>	<u>(113)</u>
1,189	Total Positions	1,302	1,006	1,189	(113)

#### ACTIVITIES IN THIS AGENCY:

	2004-05 <u>Budget</u>	2005-06 <u>Recommended</u>	Increase (Decrease)
Administrative Services	\$ 36,071,659	\$ 37,979,741	\$ 1,908,082
Financial Services	5,495,665	5,677,526	181,861
Asset Maintenance	21,295,025	16,448,173	(4,846,852)
Engineering Services	3,848,653	3,931,679	83,026
Sewer Operations	123,288,998	123,811,497	522,499
Sewerage - Capital and Debt Service	<u>540,409,600</u>	<u>205,099,500</u>	<u>(335,310,100)</u>
Total Appropriations	<u>\$ 730,409,600</u>	<u>\$ 392,948,116</u>	<u>\$ (337,461,484)</u>

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### *ADMINISTRATIVE SERVICES ACTIVITY INFORMATION*

#### ACTIVITY DESCRIPTION: ADMINISTRATIVE SERVICES

The role of the Administrative Support Group is to support the mission and goals of the department. The Administrative Support Group is responsible for carrying out the policies of the Board and the business management of the department. This group consists of ten (10) major divisions: Administration, Public Affairs, Document Management, Security, Office of Program Management, Information Systems Management Division, Commercial Operations, Systems Control, Meter Operations and the Contracts and Grants Division.

The **Public Affairs Division** is primarily responsible for compiling and disseminating public information and materials relative to the department's activities through audiovisual, media relations, public relations, and marketing to better provide retail and wholesale customers, and all national and international stakeholders, accurate and up to date information regarding the Water and Sewerage Department. Public Affairs provides complete audiovisual services for DWSD and produces videotaped public service announcements for multimedia broadcast. Public Affairs assists with the dissemination of information and feedback from employees on DWSD plans, programs, and initiatives and promotes a more open and cooperative work environment for all DWSD employees.

The **Commercial Operations Division**, which reports to the Public Affairs Division, is responsible for directing, coordinating, processing, and monitoring DWSD retail and suburban wholesale customer billing and collection activities, collection related to delinquent accounts, processing landlord/tenant agreements, bankruptcy claims and other customer service tasks including meter reads, special payment arrangements, coordinating services with other City agencies, scheduling customer billing dispute hearings, and other related activities.

The **Meter Operations Division** focuses on the meter maintenance function of the department, with an emphasis on meter repair, calibration or replacement for water and wastewater clients (wholesale suburban, residential retail and commercial/industrial). This division also provides much needed instrumentation and controls maintenance support related to the operation of the water production/distribution and wastewater collection systems.

The **Document Management Division** is responsible for disseminating information in a timely and efficient manner for Detroit Water and Sewerage internal customers. The division is responsible for a comprehensive department wide program for Records Management, which includes, but is not limited to: development and management program, records appraisal, retention and disposition, records protection, records and information management technology. The Document Management Division is responsible for the Service Improvement Program.

The **Security Division** is responsible for providing a safe and secure working environment.

The **Office of Program Management (OPMA) Division** currently serves as administrative support for the Office of the DWSD Director and Deputy Director; distributes various regulatory compliance documents relative to EPA, MDEQ, and other electronic legislative information; prepares and coordinates various regulatory reports that include SARA Title III, Michigan Air Emission Reporting Systems (MAERS), Spill Prevention Control & Countermeasure and Pollution Incident Prevention Plans (SPCC/PIP), Process Safety Management Plans (PSMs), and Risk Management Plans (RMPs); coordinates, monitors, prepares, and distributes the monthly DWSD Status Report that updates all activities to be completed per the Second Amended Consent Judgment mandate; Invoice Processing; repository for Wastewater Operations monitoring, violation and compliance reports; Waste Manifest record keeping; maintains a resource library; maintains DWSD Water and Wastewater Service Contracts and Agreements; coordinates and participates in environmental activities with federal, state, and local organizations/universities to build general public awareness; prepares, coordinates, and submits NPDES permit applications to the MDEQ for the WWTP, and for the Lake Huron and Southwest water plants; acts as a liaison between DWSD divisions and regulatory agencies regarding environmental and regulatory issues; currently manages DWSD Contracts CS-1330, DWS-830A, DWS-851, and other contracts as needed or assigned by the DWSD Director and Deputy Director. Other activities include preparing and submitting the DWSD Wastewater System Operational Plan and PCB/Mercury Minimization Program annual updates to the MDEQ as required by the NPDES Permit, researching and investigating 201 sites and their impact on the DWSD PCB/Mercury Minimization Program, Emergency/Non-Emergency Environmental Response including Waste Cleanup, Hazardous Waste Removal and Disposal, PCB

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Equipment Management including Transformers, management of the Underground and Aboveground Storage Tank (UST/AST) Programs, and Steering Committee Member of the DWSD's Health and Safety Contract CS-1322.

The **Contracts and Grants Division** is divided into four (4) units: Consultant Contracts, Construction Contracts, Grants/Loans/Audits and Local Economic Development. The Consultant and Construction Units prepare advertisements and contract documents, monitor progress on contract work, including payment and reports, and provide closeout services. The Grants/Loans/Audits Unit provides contract monitoring, closeout, and regular audit functions for construction, consultant services, and construction management projects. Also, the Local Economic Development Unit monitors targeted enterprise participation on contracts, which is mandated by Executive Orders and City Ordinances.

The **Information Systems Management Division** centralizes and expands current system/software application LAN/WAN network, related technical and system hardware support services within the department. The department has migrated to a client-server open systems environment using an Oracle database platform which supports some of the existing applications/systems, and a few which are still functioning in the mainframe environment which interfaces with current city applications supported by ITS.

The **Systems Operations Control Division** is directly responsible for pumping treated water to 126 communities and providing wastewater collection services to 78 communities. It remotely operates 22 water booster stations and 12 sewage pumping stations from the Systems Control Center and maintains capability for monitoring and controlling the water distribution network and wastewater collection systems. This capability provides the flexibility to compensate for changing load levels on the system by adjusting water pressures and reservoir flows as well as selected sewer regulator settings, interceptor flow levels and in-system storage facilities. The division generates valuable data on pressures and levels throughout the system on a 24/7 basis and keeps pumpage records and logs on all activities within the system, around the clock. After analysis of data, various daily, weekly, monthly and annual reports are generated and distributed. The division notifies communities and regulatory agencies about every CSO (combined sewer overflow) occurrence, coordinates all projects affecting the system and keeps DWSD wholesale customers informed of project impacts in advance. Systems Control Center is the nerve center for the Department's operations.

### GOALS:

1. To implement the policies of the Board, Charter requirements and Federal mandates for supplying water and sewerage services.
2. To provide an adequate level of trained personnel to operate the water and sewerage systems.
3. To implement a comprehensive agency-wide reference source.
4. To ensure widespread internal knowledge of key messages and to develop a well informed employee base.
5. To educate and inform both retail and wholesale customers and the community about important DWSD projects, initiatives, and water and wastewater issues.
6. Provide adequate technical support services for department-wide information system applications, microcomputers/servers, network and database administrative functions and facilitate interfaces with city information system activities.
7. Commercial Operations will continue employee training and activities to continue implementation of all applications of the Customer Billing and Management System to ensure improved customer service, revenue billing and collection efforts.
8. The Meter Operations Division's goals are to increase commercial/industrial water meter reading accuracy, and to increase residential water meter reading accuracy to improve the billing and revenue collection stream, by calibrating and maintaining all the meters installed in the system.
9. To efficiently and effectively process contracts, grants and loans. Also, to encourage local businesses to participate in the Department's contracting process.

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### MAJOR INITIATIVES FOR FY 2004-05 and FY 2005-06:

- To increase the participation of Detroit Headquartered, Detroit-Based, Minority and Women Businesses through the Mayor's Executive Orders, while exceeding the expectations of the local business community.
- Supervisory Control And Data Acquisition Program (SCADA) - This program provides suburban wholesale customers with lap top computers so they can monitor how some aspects of the DWSD metering system is performing, which is directly related to the metering services provided to their communities. The suburban wholesale customers can access such data as meter readings, flow characteristics, pressure readings and other problems in the system. This data assists Suburban Wholesale Customers in verifying their billing data. This program will improve customer relations with Suburban Wholesale Customers and reduce the number of billing disputes.
- The Security Division is upgrading the Water Pumping stations and Central Services Facility on DWS-844A. There will also be a database of maps to be used with contract designs that reflect the Main Office Building with the contract of CS-1331. On PC-713, the security alarms are being kept up-to-date. The identification workstations are also getting software updates.
- There is ongoing training for the service guards and supervisors. The guards are being trained on report writing and the new guards are trained at the academy.
- Under DWSD Contract PC-713, a state-of-the-art Systems Control Center (SCC) is being built at the Central Services Facility and is expected to be completed by the summer of 2005.

### PLANNING FOR THE FUTURE FOR FY 2005-06, FY 2006-07 and BEYOND:

- To complete the closeout process of grants in audit by the Federal Government's Environmental Protection Agency.
- To reach out to local construction and professional services firms to inform them of opportunities with the Department.
- Residential and Commercial/Industrial AMR Equipped Water Meter Replacement Program - This program will change-out the remaining Residential and Commercial/Industrial Automatic Meter Reading Equipped (AMR) Water Meters in the system. The AMR Equipped Water Meters will enable the meter readers to obtain meter reads with a hand-held Interrogator and/or Vehicle-Based System (Drive-By System), migratable to a fixed-based system. The projection would be approximately 190,000 Residential and Commercial/Industrial AMR Equipped Water Meters being replaced. If a Contractual Meter Replacement Program is approved by this time, this number will increase. This program will increase productivity in the Commercial Operations Division Meter Reading Section and increase revenue for the City of Detroit Water and Sewerage Department. Older water meters, in the system, inherently read lower than acceptable standards.

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### *ADMINISTRATIVE SERVICES MEASURES AND TARGETS*

<b>Type of Performance Measure:</b>	<b>2002-03</b>	<b>2003-04</b>	<b>2004-05</b>	<b>2005-06</b>
List of Measures	Actual	Actual	Projection	Target
<b>Outputs: Units of Activity directed toward Goals</b>				
Number of grant applications/amendments	N/A	N/A	2	N/A
Value of grant applications/amendments	N/A	N/A	\$856,200	N/A
Number of State Revolving Loan Fund applications	3	3	0	0
Value of loan applications	\$118,060,00	\$34,520,000	\$0	\$0
Wholesale meter maintenance (system total – 55)	55	55	55	55
<b>Activity Costs</b>	<b>\$18,386,326</b>	<b>\$21,800,408</b>	<b>\$36,071,659</b>	<b>\$37,979,741</b>

**CITY OF DETROIT**  
**Sewerage Department**  
**Financial Detail by Appropriation and Organization**

Office of the Director Administration	2004-05 Redbook		2005-06 Dept Final Request		2005-06 Mayor's Budget Rec	
	FTE	AMOUNT	FTE	AMOUNT	FTE	AMOUNT
<i>APPROPRIATION ORGANIZATION</i>						
00089 - Administration						
421010 - Office of the Director	0	\$1,012,868	0	\$617,406	0	\$1,676,291
421020 - Public Relations	0	\$1,169,493	0	\$1,145,403	0	\$1,087,757
421030 - Document Management	8	\$180,151	6	\$149,490	6	\$116,320
421040 - General Staff Services	0	\$5,978,941	0	\$6,743,461	0	\$6,794,159
421050 - General Departmental Services	0	\$3,990,388	0	\$4,242,249	0	\$4,242,249
421060 - Human Resources	0	\$17,058	0	\$17,058	0	\$17,058
421070 - Safety	8	\$404,639	3	\$223,763	3	\$223,763
421080 - Security	0	\$4,143,670	0	\$3,871,472	0	\$3,684,161
421090 - Office of Program Management Assis	19	\$1,386,593	17	\$1,504,212	17	\$1,367,490
421095 - Capital Management	0	\$87,676	0	\$84,000	0	\$84,000
421100 - Print Shop	3	\$190,374	3	\$192,831	3	\$171,619
421110 - Information Systems Administrative S	0	\$4,429,568	0	\$5,836,254	0	\$5,757,289
421200 - Contracts and Grants	0	\$600,258	0	\$585,022	0	\$554,996
421220 - Commercial Operations	0	\$6,427,128	0	\$6,609,000	0	\$6,230,885
421225 - Customer Billing	0	\$50,986	0	\$339,536	0	\$339,536
421230 - Customer Service - Detroit	0	\$39,319	0	\$39,319	0	\$39,319
421235 - Collections	0	\$7,148	0	\$7,148	0	\$7,148
421240 - Addressograph	0	\$643,327	0	\$643,327	0	\$643,327
421245 - Meter Reading	0	\$21,872	0	\$21,872	0	\$21,872
421250 - Meter Operations	0	\$1,376,397	0	\$2,210,037	0	\$2,084,166
421255 - Meter Records	0	\$15,452	0	\$16,214	0	\$16,214
421260 - Meter Shops	0	\$76,439	0	\$80,700	0	\$80,700
421265 - Meter Instrumentation Shop	0	\$595,162	0	\$624,711	0	\$624,711
421280 - Systems Operations Control	0	\$2,307,107	0	\$1,111,544	0	\$1,054,441
421300 - Operational Services	0	\$0	0	\$98,712	0	\$95,270
421310 - Pumping Station - Belle Isle	0	\$919,645	0	\$965,000	0	\$965,000
<b>APPROPRIATION TOTAL</b>	<b>38</b>	<b>\$36,071,659</b>	<b>29</b>	<b>\$37,979,741</b>	<b>29</b>	<b>\$37,979,741</b>
<b>ACTIVITY TOTAL</b>	<b>38</b>	<b>\$36,071,659</b>	<b>29</b>	<b>\$37,979,741</b>	<b>29</b>	<b>\$37,979,741</b>

**CITY OF DETROIT**  
**Budget Development for FY 2005-2006**  
**Appropriations - Summary Objects**

	<b>2004-05 Redbook</b>	<b>2005-06 Dept Final Request</b>	<b>2005-06 Mayor's Budget Rec</b>
<b>AC0542 - Administration Services</b>			
<i>A42000 - Sewerage Department</i>			
SALWAGESL - Salary & Wages	10,974,914	10,463,417	9,417,432
EMPBENESL - Employee Benefi	7,770,632	7,391,304	7,296,114
PROFSVCSL - Professional/Cont	3,827,000	3,762,000	3,762,000
OPERSUPSL - Operating Supplie	214,796	214,796	214,796
OPERSVCSL - Operating Service	11,606,764	11,122,291	11,311,908
OTHEXPSSL - Other Expenses	1,677,553	5,025,933	5,977,491
<i>A42000 - Sewerage Department</i>	<i>36,071,659</i>	<i>37,979,741</i>	<i>37,979,741</i>
<b>AC0542 - Administration Services</b>	<b>36,071,659</b>	<b>37,979,741</b>	<b>37,979,741</b>
<b>Grand Total</b>	<b>36,071,659</b>	<b>37,979,741</b>	<b>37,979,741</b>

## SEWERAGE (42)

### *FINANCIAL SERVICES ACTIVITY INFORMATION*

#### ACTIVITY DESCRIPTION: FINANCIAL SERVICES GROUP

The Financial Services Group consists of five (5) divisions, which provide general accounting, purchasing, materials management, financial planning and internal audit services for both (Water Supply and Sewage Treatment Operations) within the department. The divisions reporting to the Financial Services Group include the following:

The **Accounting Division** contains several sections which combined are responsible for directing, coordinating, posting, processing and monitoring activities related to cash receipts and disbursements, investments, bank activities, vendor payments, inventory activities and depreciation of property, plant and equipment, year-end closing and financial operation analysis to facilitate preparation of the trial balance and financial statements. In addition, this division coordinates activities related to the annual city audit, provides financial information as processed by the Oracle system, and performs other related tasks.

The **Financial Planning Division** is responsible for coordination, development, implementation and monitoring activities related to the DWSD operation and maintenance (O&M) budget, water supply and sewage treatment system service rates and charges, coordination of system revenue bond financing, and other related functions for the department.

The **Internal Audit Division** facilitates the department's internal efforts to perform operational audits of transactions, procedures, and processes in various areas within DWSD, analysis and/or other investigative tasks. In addition, this section works with the external auditors to facilitate completion of audit activities. This section reports findings, and makes recommendations when necessary to improve performance of operations, accountability, ensure appropriate accounting controls, and safeguard the department's assets.

**Materials Management Division:** The mission of the Materials Management Division is to make available a supply of goods and services necessary to support DWSD in its mission at all times, under all conditions, at an optimum value per dollar spent while maintaining public confidence. To accomplish this missions, Materials Management recommends policies and procedures, and executes approved policies and procedures, regarding operations and maintenance of fuel dispensing systems, inventory control, stocking of materials, resource recovery and auditing the preceding functions. The division also provides limited moving, transportation and warehousing services for materials and equipment.

The **Purchasing Division** ensures goods and services are purchased in the most efficient manner, are delivered by the date needed, at the maximum end-use value per dollar spent, and meet the quality specified and finally, that during the entire procurement process, the department has complied with all federal, state and local laws, statutes, ordinances, and executive orders that pertain to the procurement process.

#### GOALS:

1. To develop and implement fair, equitable water and sewage rates and charges to all system customers using uniform rate methodologies.
2. Improve the integrity and timeliness of posting accounting transactions via the use of the City's Detroit Resource Management System (DRMS), prepare financial statements and perform employee training, and improve customer service.
3. Maintain and/or strive to achieve revenue bond credit ratings upgrades for both systems through continual review and improvement of operational, financial and management policies internal and external to the department.
4. Improve budgetary development and monitoring activities via use of enhanced technology (the City's Budget Resource and Support System-BRASS), business processes and continued employee training in all respective areas, and in the long run reduce operational expenditures where possible emphasizing operational efficiency department-wide.



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5. Perform appropriate internal audit activities, provide recommendations where necessary to facilitate the improvement of operational performance, accountability, ensure appropriate accounting controls, and safeguard the department's assets.
6. Ensure that DWSD has a well-integrated inventory and warehouse system that results in lower inventory and operational costs while customer service levels are maintained or improved. Inventory management must ensure the stock is available while reducing inventory costs; and the warehouse management function must increase productivity and reduce costs by streamlining the physical process of warehousing and producing fewer mistakes.

### MAJOR INITIATIVES FOR FY 2004-05 and FY 2005-06:

#### Materials Management Division

- Will begin replacing its aging fleet of hi-lo's
- Will assist in plans to change DWSD's prior fuel system controls over to the new OPW System. This will allow electronic connectivity between fuel sites.
- To continue 80% high dollar value inventories with multiple 20% inventories occurring continuously throughout the year. This will further increase the inventory accuracy.
- Working with DWSD Purchasing to increase the number of stock Blanket Purchase Orders for more high turnover items.

### PLANNING FOR THE FUTURE FOR FY 2005-06, FY 2006-07 and BEYOND:

#### Materials Management Division

- Create a joint team with Accounting to review EMPAC/Oracle transactions monthly to identify interface discrepancies and errors.
- Expand the MMD Warehouse Safety Program

#### Accounting

- Purchased INSITE license, a Web-based maintenance system, from Indus. The division plans to upgrade EMPAC to INSITE.

## SEWERAGE (42)

### *FINANCIAL SERVICES MEASURES AND TARGETS*

<b>Type of Performance Measure:</b>	<b>2002-03</b>	<b>2003-04</b>	<b>2004-05</b>	<b>2005-06</b>
List of Measures	Actual	Actual	Projection	Target
<b>Inputs: Resources Allocated or Service Demands Made</b>				
Materials Management				
Fuel Procurement/Usage (Gallons)	867,804	898,713	934,661	962,701
<b>Efficiency: Program Costs related to Units of Activity</b>				
Stock Inventory Levels (Benchmark – 95%)	94%	98%	99%	99%
<b>Activity Costs</b>	<b>\$7,719,747</b>	<b>\$2,404,622</b>	<b>\$5,495,665</b>	<b>\$5,677,526</b>

**CITY OF DETROIT**  
**Sewerage Department**  
**Financial Detail by Appropriation and Organization**

Office of Assist Director Financial Service Financial Services Group	2004-05 Redbook		2005-06 Dept Final Request		2005-06 Mayor's Budget Rec	
	FTE	AMOUNT	FTE	AMOUNT	FTE	AMOUNT
<i>APPROPRIATION ORGANIZATION</i>						
00090 - Financial Services Group						
422010 - Office of Assist Director Financial Sen	0	\$700,462	0	\$1,012,278	0	\$1,246,906
422020 - Financial Administrative Services	0	\$497,896	0	\$341,036	0	\$322,131
422030 - Budget/Fiscal Reporting	0	\$9,356	0	\$1,828	0	\$1,828
422040 - Rates	0	\$1,964	0	\$220,936	0	\$220,936
422080 - General Accounting Administrative Se	0	\$1,775,148	0	\$1,657,401	0	\$1,562,038
422090 - Financial Reporting	0	\$4,050	0	\$4,103	0	\$4,103
422100 - Fixed Assets/Inventory/Payables	0	\$23,491	0	\$17,638	0	\$17,638
422110 - Cash Management	0	\$28,757	0	\$28,586	0	\$28,586
422220 - Purchasing	0	\$741,843	0	\$724,819	0	\$686,063
422230 - Materials Management	0	\$1,682,261	0	\$1,640,229	0	\$1,558,625
422235 - Wastewater Plant Stores	0	\$25,759	0	\$22,718	0	\$22,718
422240 - Sewerage Secondary Stores	0	\$3,594	0	\$3,321	0	\$3,321
422250 - Operations Support	0	\$400	0	\$972	0	\$972
422255 - Inventory Audit	0	\$684	0	\$1,661	0	\$1,661
<b>APPROPRIATION TOTAL</b>	<b>0</b>	<b>\$5,495,665</b>	<b>0</b>	<b>\$5,677,526</b>	<b>0</b>	<b>\$5,677,526</b>
<b>ACTIVITY TOTAL</b>	<b>0</b>	<b>\$5,495,665</b>	<b>0</b>	<b>\$5,677,526</b>	<b>0</b>	<b>\$5,677,526</b>

**CITY OF DETROIT**  
**Budget Development for FY 2005-2006**  
**Appropriations - Summary Objects**

	<b>2004-05 Redbook</b>	<b>2005-06 Dept Final Request</b>	<b>2005-06 Mayor's Budget Rec</b>
<b>AC1042 - Financial Services</b>			
<i>A42000 - Sewerage Department</i>			
SALWAGESL - Salary & Wages	2,539,675	2,410,166	2,169,149
EMPBENESL - Employee Benefi	1,892,031	1,756,791	1,756,792
OPERSUPSL - Operating Suppli	33,400	32,612	32,612
OPERSVCSL - Operating Servic	5,250	1,054	1,054
CAPOUTLSL - Capital Outlays/I	1,500	1,210	1,210
OTHEXPSSL - Other Expenses	1,023,809	1,475,693	1,716,709
<i>A42000 - Sewerage Department</i>	<i>5,495,665</i>	<i>5,677,526</i>	<i>5,677,526</i>
<b>AC1042 - Financial Services</b>	<b>5,495,665</b>	<b>5,677,526</b>	<b>5,677,526</b>
<b>Grand Total</b>	<b>5,495,665</b>	<b>5,677,526</b>	<b>5,677,526</b>

## SEWERAGE (42)

### *ASSET MAINTENANCE GROUP ACTIVITY INFORMATION*

#### ACTIVITY DESCRIPTION: ASSET MAINTENANCE GROUP

Asset Maintenance provides maintenance services and facilities support assistance to its internal customers (i.e., the other five (5) administrative and operational groups) of the Water and Sewerage Department. Activities such as corrective and preventive maintenance for equipment and facilities is directed and coordinated through this group. Other functions include buildings, grounds and plant repair chores. This group is also responsible for vehicle fleet management operations and meter calibration and maintenance operations.

**Plants, Buildings, Grounds and Mechanical Maintenance (MM) Division:** The division provides centralized major maintenance and repair support services at five (5) water plants and 22 water booster stations, customer service centers, Central Services Facility and various other DWSD buildings for the purposes of housekeeping and the grounds maintenance work, as well as electrical, mechanical and the other tasks where skilled trades work is needed. It also provides a support base for the equipment repair, calibration or replacements particularly for HVAC and other building equipment, as well as pumps, motors, valves and electrical power distribution equipment. This division also provides the vehicle fleet management for the department's fleet of vehicles and mobile construction equipment. This division assists Maintenance and Repair Division in repair of water mains and water distribution system valves.

The **Maintenance and Repair Division** repairs and maintains the water distribution and wastewater collection systems. The Division comprised of four (4) districts maintains all allied appurtenances, such as fire hydrants, water and sewer manholes, valves, water/sewer service lines and storm water basins and lead lines. The Telecommunications, Claims, Dispatch and Field Inspection Forces provide a support services to the departments' nearly 4 million customers.

#### GOALS:

The Plants, Buildings, Grounds and Mechanical Maintenance Division's goals are:

1. Improve pumping equipment availability and reliability for the maximum utilization of the water plants and water booster stations.
2. Improve buildings and grounds maintenance of unmanned water booster stations.
3. Improve employees' safety at work locations and the general efficiency and effectiveness of their support function.
4. Continue to implement PM (preventive maintenance) measures on critical pumping and other equipment at water plants and water booster stations.
5. Continue to implement a management succession – planning program.

The Maintenance and Repair Division's goals are:

1. To increase customer satisfaction by reducing the number of water and sewer complaints.
2. Establish Divisional Training to reduce lost time accidents, and provide succession training to meet Divisional needs.
3. Establish preventive maintenance programs in the water and sewer areas to improve efficiency.

#### MAJOR INITIATIVES FOR FY 2004-05 and FY 2005-06:

- Worked closely with DWSD Engineering in the implementation of water/wastewater infrastructure improvements.
- Assisted in the replacement of 45,000 lineal feet of water mains in downtown Detroit. Work included multiple water main and valve isolations.
- Repaired several large diameter water mains, 30", 36" and 42" mains.
- Repaired several large diameter sewer mains, 48" and 60".
- Multiple valve system operations- Hoover and 14 Mile and Haggerty the most notable.
- Several air valve repairs on large diameter mains.
- Created a specialized sewer cleaning unit.
- Document operating procedures of various shop operations and standardize various work methods for better

## **SEWERAGE (42)**

work efficiency.

- Improve appearance of interiors and exteriors of customer service centers, Water Board Building and Central Services Facility.
- Improvement of incoming electrical service vault at the Water Board Building.

### PLANNING FOR THE FUTURE FOR FY 2005-06, FY 2006-07 and BEYOND:

- Implementation of new work order tracking system (EMPAC) and customer service system to improve customer service and response.
- Establish dedicated and standardized work procedures and policies.
- Encourage the department to pursue adjacent land acquisition for future expansion of Central Services Facility.
- Waterproofing and repair of the Water Board Building.
- Integrate equipment and facilities documents of the water plants and water booster stations and CSO collection system with EMPAC system.

## SEWERAGE (42)

### *ASSET MAINTENANCE MEASURES AND TARGETS*

<b>Type of Performance Measure:</b>	<b>2002-03</b>	<b>2003-04</b>	<b>2004-05</b>	<b>2005-06</b>
List of Measures	Actual	Actual	Projection	Target
<b>Outputs: Units of Activity directed toward Goals</b>				
Sites Maintained	20	20	20	20
Acreage Maintained	350	350	350	350
Vehicle Repairs performed	1,228	1,296	935	N/A
<b>Outcomes: Results or Impacts of Program Activities</b>				
Major Pumping Units Availability – Sewage (Benchmark – 85%)	81.4%	88%	90%	95%
<b>Activity Costs</b>	<b>\$3,348,455</b>	<b>\$3,218,020</b>	<b>\$21,295,025</b>	<b>\$16,448,173</b>

**CITY OF DETROIT**  
**Sewerage Department**  
**Financial Detail by Appropriation and Organization**

Office of Assistant Director Asset Maintena Asset Maintenance Group	2004-05 Redbook		2005-06 Dept Final Request		2005-06 Mayor's Budget Rec	
	FTE	AMOUNT	FTE	AMOUNT	FTE	AMOUNT
<i>APPROPRIATION ORGANIZATION</i>						
00161 - Asset Maintenance Group						
424010 - Office of Assistant Director Asset Mai	0	\$91,482	0	\$165,083	0	\$822,549
424120 - Mechanical Operations Administratio	0	\$7,688,411	0	\$5,130,326	0	\$4,834,238
424130 - Ground Maintenance	0	\$42,773	0	\$24,462	0	\$24,462
424140 - Field Operations	0	\$1,660,650	0	\$1,411,552	0	\$1,411,553
424150 - Mechanical Maintenance	0	\$907,113	0	\$771,046	0	\$771,046
424190 - Water Board Building	0	\$1,902,754	0	\$1,714,544	0	\$1,648,394
424240 - Maintenance and Repair 2004	0	\$7,951,377	0	\$6,360,481	0	\$6,065,253
424250 - East Yard	0	\$1,015	0	\$0	0	\$0
424260 - West Yard	0	\$53,386	0	\$42,609	0	\$42,609
424270 - North Yard	0	\$112	0	\$0	0	\$0
424360 - Central Service Facility	0	\$995,952	0	\$828,070	0	\$828,070
<b>APPROPRIATION TOTAL</b>	<b>0</b>	<b>\$21,295,025</b>	<b>0</b>	<b>\$16,448,173</b>	<b>0</b>	<b>\$16,448,173</b>
<b>ACTIVITY TOTAL</b>	<b>0</b>	<b>\$21,295,025</b>	<b>0</b>	<b>\$16,448,173</b>	<b>0</b>	<b>\$16,448,173</b>



**CITY OF DETROIT**  
**Budget Development for FY 2005-2006**  
**Appropriations - Summary Objects**

	<b>2004-05 Redbook</b>	<b>2005-06 Dept Final Request</b>	<b>2005-06 Mayor's Budget Rec</b>
<b>AC1542 - Asset Management</b>			
<i>A42000 - Sewerage Department</i>			
SALWAGESL - Salary & Wages	9,682,314	6,655,152	5,989,637
EMPBENESL - Employee Benefi	7,192,573	5,176,151	5,176,153
PROFSVCSL - Professional/Cont	1,715,000	2,215,000	2,215,000
OPERSUPSL - Operating Supplie	920,575	943,424	943,424
OPERSVCSL - Operating Service	437,741	889,192	889,192
CAPEQUPSL - Capital Equipmen	3,100	3,000	3,000
CAPOUTLSL - Capital Outlays/M:	20,000	20,000	20,000
OTHEXPSSL - Other Expenses	1,323,722	546,254	1,211,767
<i>A42000 - Sewerage Department</i>	<i>21,295,025</i>	<i>16,448,173</i>	<i>16,448,173</i>
<b>AC1542 - Asset Management</b>	<b>21,295,025</b>	<b>16,448,173</b>	<b>16,448,173</b>
<b>Grand Total</b>	<b>21,295,025</b>	<b>16,448,173</b>	<b>16,448,173</b>

## SEWERAGE (42)

### *ENGINEERING SERVICES ACTIVITY INFORMATION*

#### ACTIVITY DESCRIPTION: ENGINEERING SERVICES-SEWER

Engineering Services provides engineering services to the remaining four (4) operational groups within the department. The Engineering Services consists of seven (7) broad functional groups: Engineering/Administrative Support, Wastewater Construction, Wastewater Design, Facilities Design, Water & Sewer Systems, Field Engineering and Combined Service Overflow Groups. A description of each group follows:

The **Engineering Administration** is headed by the General Manager of Engineering Services who advises the Division's engineering and contract administration functions. The general and assistant superintendents of Engineering execute the day-to-day engineering/contract activities. The Engineering and Administrative Support section provides general support to the Division's other six (6) groups. Support activities include fiscal projection and management, human resources management, material resources management, organizational development and training, statistical operations reporting, project accounting and reporting, and property management.

The **Wastewater Construction Group** inspects construction and alteration of the Wastewater Treatment Plant buildings and equipment for contract conformance. This group reviews drawings and produces design documents in coordination with the Wastewater Design Group.

The **Wastewater Design Group** directs and coordinates the preparation of design reports, cost estimates, and plans and specifications, by in-house or consultant forces, and acts as a resource for construction or field engineering staff for projects related to the wastewater system.

The **Facilities Design Group** directs and coordinates the preparation of design reports, cost estimates, and plans and specifications, by in-house or consultant forces, and acts as a resource for construction or field engineering staff efforts for projects related to Department locations and facilities (excluding the Wastewater Treatment Plant).

The **Water & Sewer Systems Group** directs and coordinates the preparation of design reports, cost estimates, plans and specifications for all transmission/distribution mains for water and sewer projects. This group is also responsible for the maintenance of all maps and records associated with the water and sewer system. This group consists of four (4) sections: Urban Design, Planning, Suburban Engineering and Records, and Major Design.

The **Field Engineering Group** plans, directs, and coordinates field engineering personnel in ongoing construction inspection for compliance of water mains, sewers, building construction, and equipment installation contracts; oversees all Water Treatment Plant renovations to check conformance to accepted standards; insures the structural integrity of water systems during new and alteration construction work; initiates change orders; and provides locations stake-out under the Miss Dig system.

The **CSO Group** directs and coordinates the preparation of design reports, cost estimates and plans and specifications by consultant forces and acts as a resource to the construction or field engineering staff for projects related to CSO.

#### GOALS:

1. To perform the related functions of these divisions by reasonably and conservatively coordinating and managing resources via each operational group.
2. To insure that all engineering designs are in compliance with all federal, state and local agency requirements.
3. To insure that all water, sewage disposal and wastewater facilities are constructed in conformity with the plans and specifications, and those specifications are functional.

## **SEWERAGE (42)**

### MAJOR INITIATIVES FOR FY 2004-05 and FY 2005-06:

- Security Systems Upgrade for Various Booster Stations
- Construction of Waste Washwater and Sludge Treatment Facility at Southwest WTP
- Wick Road Station Rehabilitation
- Schoolcraft Pumping Station Rehabilitation
- Water Meter Replacement and Automatic Meter Reader Equipment Installation

### PLANNING FOR THE FUTURE FOR FY 2005-06, FY 2006-07 and BEYOND:

- Filtration Improvements at Southwest Water Treatment Plant
- Pretreatment Improvements at Springwells WTP
- Filter Media Replacement at Northeast WTP

**CITY OF DETROIT**  
**Sewerage Department**  
**Financial Detail by Appropriation and Organization**

<b>Office of Assistant Director of Engineering Engineering Services - Sewage</b>	<b>2004-05 Redbook</b>		<b>2005-06 Dept Final Request</b>		<b>2005-06 Mayor's Budget Rec</b>	
	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>
<i>APPROPRIATION ORGANIZATION</i>						
05831 - Engineering Services - Sewage						
423010 - Office of Assistant Director of Enginee	0	\$227,055	0	\$503	0	\$1,161,577
423020 - Engineering Administrative Services	178	\$3,548,688	135	\$3,837,933	135	\$2,676,859
423030 - Field Engineering Group	0	\$32,818	0	\$34,437	0	\$34,437
423040 - Wastewater Design	0	\$25,000	0	\$24,595	0	\$24,595
423050 - Sewerage System	0	\$15,092	0	\$34,211	0	\$34,211
<b>APPROPRIATION TOTAL</b>	<b>178</b>	<b>\$3,848,653</b>	<b>135</b>	<b>\$3,931,679</b>	<b>135</b>	<b>\$3,931,679</b>
<b>ACTIVITY TOTAL</b>	<b>178</b>	<b>\$3,848,653</b>	<b>135</b>	<b>\$3,931,679</b>	<b>135</b>	<b>\$3,931,679</b>

**CITY OF DETROIT**  
**Budget Development for FY 2005-2006**  
**Appropriations - Summary Objects**

	2004-05 Redbook	2005-06 Dept Final Request	2005-06 Mayor's Budget Rec
<b>AC2042 - Engineering Services - Sewage</b>			
<i>A42000 - Sewerage Department</i>			
SALWAGESL - Salary & Wages	2,833,227	2,652,306	2,387,075
EMPBENESL - Employee Benefi	661,528	1,055,070	159,227
PROFSVCSL - Professional/Con	75,000	52,500	52,500
OPERSUPSL - Operating Suppli	146,435	146,434	146,434
OPERSVCSL - Operating Servic	441,930	441,930	441,930
OTHEXPSSL - Other Expenses	(309,467)	(416,561)	744,513
<i>A42000 - Sewerage Department</i>	3,848,653	3,931,679	3,931,679
<b>AC2042 - Engineering Services - Sewage</b>	<b>3,848,653</b>	<b>3,931,679</b>	<b>3,931,679</b>
<b>Grand Total</b>	<b>3,848,653</b>	<b>3,931,679</b>	<b>3,931,679</b>

## **SEWERAGE (42)**

### ***SEWER OPERATIONS ACTIVITY INFORMATION***

#### **ACTIVITY DESCRIPTION: SEWER OPERATIONS**

Sewerage Plant Operations consists of the Wastewater Treatment Plant and the Industrial Waste Control Division. A description of each group follows:

The Wastewater Treatment Plant is operated on a basis. Operations at the plant include treatment of wastewater, the removal and disposal of solids collected from wastewater, disinfection of the wastewater effluent, analysis of wastewater and industrial waste samples to insure compliance with various ordinances, laws, the plant's Renewal Operating Permit (ROP), National Pollutant Discharge Elimination System (NPDES) Permit, and performance of maintenance tasks on plant equipment.

The Industrial Waste Control Division regulates the discharge of wastewater into the sewerage system from commercial, industrial and other non-domestic sources. These activities include on-site inspections of facility operations, monitoring of wastewater discharges, issuance of permits with applicable requirements and controls, and enforcement of the City of Detroit Ordinance 23-86, 34-96, and applicable federal and state laws.

#### **GOALS:**

##### **Wastewater Treatment Plant**

1. Produce a quality effluent.
2. Manage residuals processing and disposal.
3. Achieve regulatory compliance in an effective and efficient manner.

#### **MAJOR INITIATIVES FOR FY 2004-05 and FY 2005-06:**

- The WWTP will startup and operate new equipment.
- The WWTP will coordinate ongoing and new CIP construction projects that significantly impact the operation of the WWTP.
- The WWTP will implement necessary changes to the training program.
- The Department has implemented new processes and software tools to improve the management of the Capital Improvement Program. A new group has been created to manage the CIP, department wide; coordinating the planning and implementation of all CIP projects. This will ensure the long-term success of the WWTP CIP. The transition of the responsibility to execute WWTP CIP projects from PC-744 back to DWSD has begun with the critical planning and project definition phase activities for new projects.
- WWTP staffs are participating in the start-up, testing, and operations of new CSO facilities.

#### **PLANNING FOR THE FUTURE FOR FY 2005-06, FY 2006-07 and BEYOND:**

The lease for MCHT will expire in 2009; a new laboratory facility is needed and a capital project is being defined.

#### **GOALS:**

##### **Industrial Waste Control**

1. To implement a complete regulatory control program of all non-domestic wastewater released to the Detroit Sewerage Collection System.
2. To initiate appropriate enforcement actions to remedy non-complying discharges, including administrative and legal actions.
3. To protect and preserve the local environment of the city of Detroit and southeastern Michigan.

#### **MAJOR INITIATIVES FOR FY 2004-05 and FY 2005-06:**

- Implementation of the Ordinance local limits
- Addressing the NPDES requirement for a 2006 technical evaluation of local limits
- Follow-up with suburban communities to adopt amendments to Ordinance 34-96 for local limits

#### **PLANNING FOR THE FUTURE FOR FY 2005-06, FY 2006-07 and BEYOND:**

Follow-up with suburban communities to adopt amendments to Ordinance 34-96 for local limits

## SEWERAGE (42)

### SEWER OPERATIONS MEASURES AND TARGETS

Type of Performance Measure:	2002-03	2003-04	2004-05	2005-06
List of Measures	Actual	Actual	Projection	Target
<b>Outputs: Units of Activity directed toward Goals</b>				
Average sewage pumped per day (MGD)	614	658	674	690
Sludge produced (wet tons)	665,850	756,935	775,340	793,750
Tons of materials incinerated (wet)	346,700	708,800	697,810	714,370
Number of facility inspections	997	755	1,000	1,100
Number of wastewater permits	369	475	512	520
Number of enforcement notices and violations	410	340	400	400
Number of compliance and administrative hearings	78	92	75	75
Number of civil actions initiated	0	1	0	2
Value of penalties/fees assessed	\$121,296	\$129,508	\$75,000	\$100,000
Number of samples collected	11,034	11,452	12,000	12,000
Number of permits revoked	1	0	0	0
<b>Activity Costs</b>	<b>\$118,220,171</b>	<b>\$117,321,817</b>	<b>\$123,288,998</b>	<b>\$123,811,497</b>

**CITY OF DETROIT**  
**Sewerage Department**  
**Financial Detail by Appropriation and Organization**

<b>Office of Assistant Director of Wastewater</b> <b>Wastewater Plant Operations</b>	<b>2004-05</b> <b>Redbook</b>		<b>2005-06</b> <b>Dept Final</b> <b>Request</b>		<b>2005-06</b> <b>Mayor's</b> <b>Budget Rec</b>	
	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>
<i>APPROPRIATION ORGANIZATION</i>						
00162 - Wastewater Plant Operations						
425010 - Office of Assistant Director of Wastev	6	\$2,280,213	6	\$1,162,826	6	\$12,396,444
425020 - Plant Administration	960	\$67,181,929	907	\$69,242,741	907	\$59,155,340
425030 - Analytical Laboratory	0	\$1,231,752	0	\$1,088,500	0	\$1,088,500
425040 - Control System Engineering	0	\$585,142	0	\$216,400	0	\$216,400
425060 - Document Control	0	\$192,079	0	\$184,579	0	\$184,579
425070 - Treatment Plant Maintenance	0	\$8,925,333	0	\$5,973,525	0	\$5,973,525
425080 - Operations Laboratory	0	\$105,783	0	\$105,000	0	\$105,000
425090 - Plant Engineering	0	\$14,295	0	\$3,000	0	\$3,000
425100 - Process Engineering	0	\$5,620,713	0	\$4,678,156	0	\$4,678,156
425110 - Training	0	\$69,917	0	\$8,000	0	\$8,000
425120 - Treatment Operations	0	\$26,152,209	0	\$29,564,200	0	\$29,564,200
425130 - Industrial Waste Control Administrati	0	\$701,916	0	\$678,250	0	\$678,250
425140 - I. W. C. Field Monitoring	120	\$7,499,441	112	\$7,699,420	112	\$6,553,203
425150 - I. W. C. Program Operations	0	\$2,300,500	0	\$2,366,500	0	\$2,366,500
425395 - Puritan / Fenkell	0	\$41,093	0	\$735,900	0	\$735,900
425400 - 7 Mile	0	\$20,547	0	\$0	0	\$0
425410 - Hubble / Southfield	0	\$102,543	0	\$0	0	\$0
425425 - St. Aubin - CSO	0	\$41,093	0	\$0	0	\$0
425430 - Inspection & Permits	0	\$133,500	0	\$66,500	0	\$66,500
425440 - Enforcement, Field Investigation & M	0	\$79,000	0	\$28,000	0	\$28,000
425450 - Revenue Program & Pollution Prever	0	\$10,000	0	\$10,000	0	\$10,000
<b>APPROPRIATION TOTAL</b>	<b>1086</b>	<b>\$123,288,998</b>	<b>1025</b>	<b>\$123,811,497</b>	<b>1025</b>	<b>\$123,811,497</b>
<b>ACTIVITY TOTAL</b>	<b>1086</b>	<b>\$123,288,998</b>	<b>1025</b>	<b>\$123,811,497</b>	<b>1025</b>	<b>\$123,811,497</b>



**CITY OF DETROIT**  
**Budget Development for FY 2005-2006**  
**Appropriations - Summary Objects**

	<b>2004-05 Redbook</b>	<b>2005-06 Dept Final Request</b>	<b>2005-06 Mayor's Budget Rec</b>
<b>AC2542 - Sewer Operations</b>			
<i>A42000 - Sewerage Department</i>			
SALWAGESL - Salary & Wages	57,976,140	51,836,296	46,652,666
EMPBENESL - Employee Benefi	16,301,771	20,644,040	14,514,512
PROFSVCSL - Professional/Cont	9,645,148	9,196,581	9,196,581
OPERSUPSL - Operating Supplie	16,228,065	13,936,100	13,936,100
OPERSVCSL - Operating Service	24,896,533	27,951,980	27,951,980
OTHEXPSSL - Other Expenses	(1,758,659)	246,500	11,559,657
<i>A42000 - Sewerage Department</i>	<i>123,288,998</i>	<i>123,811,497</i>	<i>123,811,496</i>
<b>AC2542 - Sewer Operations</b>	<b>123,288,998</b>	<b>123,811,497</b>	<b>123,811,497</b>
<b>Grand Total</b>	<b>123,288,998</b>	<b>123,811,497</b>	<b>123,811,497</b>

## **SEWERAGE (42)**

### ***SEWERAGE - CAPITAL ACTIVITY INFORMATION***

#### **ACTIVITY DESCRIPTION: SEWERAGE - CAPITAL PROGRAM**

The capital program for the Sewage Disposal System is a five-year plan devoted to replacing, rehabilitating, or improving existing process facilities at the Wastewater Treatment Plant; construction or installation of new facilities at the Wastewater Treatment Plant; rehabilitating sewage pumping stations and major sewers; construction of retention basins and other combined sewer overflow (CSO) control measures throughout the combined sewer system; replacement of suburban sewage primary measuring devices; replacing or relining deteriorated lateral sewers in the city of Detroit; installing new sewers or re-routing existing sewers to accommodate new development in the Empowerment Zone and throughout the city of Detroit; automating the meter reading function; and upgrading the instrumentation and process control equipment for the Wastewater Treatment Plant and the sewage collection system.

#### **GOALS:**

To provide essential, efficient and user-friendly services by:

1. Continuing to improve, expand, and rehabilitate the Wastewater Treatment Plant to provide a cost-effective and energy efficient sewage treatment facility that meets all water and air quality standards.
2. Continuing to construct combined sewer retention basins, rehabilitate and improve sewage pumping stations and implement other measures for the containment of combined sewer overflow, thereby reducing the frequency and magnitude of combined sewer overflows to the Detroit and Rouge rivers.
3. Continuing to construct those interceptor and control facilities needed to adequately service all customers, and replacing and rehabilitating suburban wholesale customer primary measuring devices and meter pits to more accurately measure and bill for wastewater treatment service provided.
4. Continuing to replace those lateral sewers in the city of Detroit which are deteriorated or are of insufficient capacity to service customers.
5. Continuing to computerize various wastewater functions to reduce costs and improve operations.

## SEWERAGE (42)

### SEWERAGE - CAPITAL MEASURES AND TARGETS

Type of Performance Measure: List of Measures	2002-03 Actual	2003-04 Actual	2004-05 Projection	2005-06 Target
<b>Outputs: Units of Activity directed toward Goals</b>				
Number of capital projects – Wastewater Treatment Plant	83	66	113	70
Value of capital projects – Wastewater Treatment Plant	183,345,000	214,835,000	192,940,000	91,746,000
Number of capital projects – not at Wastewater Treatment Plant	27	25	35	26
Value of capital projects - not at Wastewater Treatment Plant	83,766,000	93,485,000	99,430,000	120,547,000
Number of capital projects – interceptor and control facilities	8	5	3	3
Value of capital projects – interceptor and control facilities	10,728,000	2,586,000	912,000	2,279,000
Number of capital projects - computerization	23	23	34	25
Value of capital projects - computerization	30,574,000	30,292,000	31,735,000	26,449,000
Number of capital projects – in City lateral sewers	10	8	9	5
Value of capital projects – in City lateral sewers	21,482,000	32,858,000	30,449,000	18,278,000
Total number of ongoing projects	151	127	194	129
Total value of ongoing projects	329,895,000	374,056,000	355,466,000	259,299,000
<b>Activity Costs</b>	<b>\$79,083,627</b>	<b>\$126,208,027</b>	<b>\$540,409,600</b>	<b>\$205,099,500</b>

**CITY OF DETROIT**  
**Sewerage Department**  
**Financial Detail by Appropriation and Organization**

<b>Bond Principle &amp; Interest Redemption Fur</b> <b>Interest and Bond Redemption</b>	<b>2004-05</b> <b>Redbook</b>		<b>2005-06</b> <b>Dept Final</b> <b>Request</b>		<b>2005-06</b> <b>Mayor's</b> <b>Budget Rec</b>	
	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>	<b>FTE</b>	<b>AMOUNT</b>
<i>APPROPRIATION ORGANIZATION</i>						
00168 - Interest and Bond Redemption						
427010 - Bond Principle & Interest Redemption	0	\$142,131,400	0	\$150,230,400	0	\$150,230,400
<b>APPROPRIATION TOTAL</b>	<b>0</b>	<b>\$142,131,400</b>	<b>0</b>	<b>\$150,230,400</b>	<b>0</b>	<b>\$150,230,400</b>
00169 - Sewerage System Improvements						
427030 - Sewerage System Improvements	0	\$57,363,200	0	\$45,819,100	0	\$45,819,100
<b>APPROPRIATION TOTAL</b>	<b>0</b>	<b>\$57,363,200</b>	<b>0</b>	<b>\$45,819,100</b>	<b>0</b>	<b>\$45,819,100</b>
00443 - Extraordinary Repairs and Replacement						
427040 - Extraordinary Repair & Replacement	0	\$109,100	0	\$0	0	\$0
<b>APPROPRIATION TOTAL</b>	<b>0</b>	<b>\$109,100</b>	<b>0</b>	<b>\$0</b>	<b>0</b>	<b>\$0</b>
05735 - Sewerage Reserve Deposit						
427025 - Sewerage Reserve Deposit	0	\$1,090,900	0	\$1,000,000	0	\$1,000,000
<b>APPROPRIATION TOTAL</b>	<b>0</b>	<b>\$1,090,900</b>	<b>0</b>	<b>\$1,000,000</b>	<b>0</b>	<b>\$1,000,000</b>
11488 - Sewerage Bond Fund Series 2005						
427226 - Sewerage Bond Fund Series 2005	0	\$339,715,000	0	\$8,050,000	0	\$8,050,000
<b>APPROPRIATION TOTAL</b>	<b>0</b>	<b>\$339,715,000</b>	<b>0</b>	<b>\$8,050,000</b>	<b>0</b>	<b>\$8,050,000</b>
<b>ACTIVITY TOTAL</b>	<b>0</b>	<b>\$540,409,600</b>	<b>0</b>	<b>\$205,099,500</b>	<b>0</b>	<b>\$205,099,500</b>

**CITY OF DETROIT**  
**Budget Development for FY 2005-2006**  
**Appropriations - Summary Objects**

	<b>2004-05 Redbook</b>	<b>2005-06 Dept Final Request</b>	<b>2005-06 Mayor's Budget Rec</b>
<b>AC3042 - Sewerage - Capital and Debt Service</b>			
<i>A42000 - Sewerage Department</i>			
CAPEQUPSL - Capital Equipment	8,500,000	8,500,000	8,500,000
OTHEXPSSL - Other Expenses	389,778,200	46,369,100	46,369,100
FIXEDCHGSL - Fixed Charges	142,131,400	150,230,400	150,230,400
<i>A42000 - Sewerage Department</i>	<i>540,409,600</i>	<i>205,099,500</i>	<i>205,099,500</i>
<b>AC3042 - Sewerage - Capital and Debt Ser</b>	<b>540,409,600</b>	<b>205,099,500</b>	<b>205,099,500</b>
<b>Grand Total</b>	<b>540,409,600</b>	<b>205,099,500</b>	<b>205,099,500</b>

**CITY OF DETROIT**  
**Budget Development for FY 2005-2006**  
**Appropriation Summary - Revenues**

	2003-04 Actuals	2004-05 Redbook	2005-06 Dept Final Request	2005-06 Mayor's Budget Rec	Variance
<b>A42000 - Sewerage Department</b>					
00759 - Sewage Bond Reserve					
461100 - Earnings On Investment	3,803,453	0	0	0	0
00759 - Sewage Bond Reserve	3,803,453	0	0	0	0
00838 - State Revenue Sharing - State Revolv Fu					
461100 - Earnings On Investment	887,510	15,973,100	9,120,600	9,120,600	(6,852,500)
461101 - Unrealized Gain	(343,804)	0	0	0	0
522110 - Project Borrowings	0	64,715,000	8,050,000	8,050,000	(56,665,000)
00838 - State Revenue Sharing - State	543,706	80,688,100	17,170,600	17,170,600	(63,517,500)
00891 - Sewage Bond Fund Series 1993A					
472150 - Other Miscellaneous	64,908	0	0	0	0
00891 - Sewage Bond Fund Series 199	64,908	0	0	0	0
00956 - Sewage Bond Fund Series 1995A					
461100 - Earnings On Investment	3,263	0	0	0	0
00956 - Sewage Bond Fund Series 199	3,263	0	0	0	0
04828 - Revenue - Sewerage Receiving					
413155 - Sewer Tap Fees	62,834	0	0	0	0
441100 - Other Labors and Mater	66,463	600,000	100,000	100,000	(500,000)
447236 - City of Detroit IWC Char	5,441,353	0	0	0	0
447237 - Highway Drainage	1,912,258	0	0	0	0
447240 - Industrial Waste Surcha	9,433,500	0	0	0	0
447246 - IWC Penalties - Detroit	107,983	0	0	0	0
447250 - Sewage Treatment Sale	131,000,000	175,477,000	179,393,800	179,393,800	3,916,800
447255 - Sewage Treatment - Wr	159,000,000	182,936,700	181,553,800	181,553,800	(1,382,900)
447260 - Pollutant Surcharges	3,155,336	2,101,600	3,208,300	3,208,300	1,106,700
447285 - Sewage Disposal -Deptl	998,336	0	0	0	0
447287 - Septic Tank Disposal	141,891	0	0	0	0
447300 - Other Utility Revenue	4,564,035	0	0	0	0
448115 - Other Fees	250,630	3,900,000	3,900,000	3,900,000	0
448170 - Other Fee-Shut Off-Turr	4,919	0	0	0	0
448190 - Illegal Turn on Penalty	74,167	0	0	0	0
461100 - Earnings On Investment	105,178	75,000	75,000	75,000	0
462241 - Rent of Building and Sp	20,400	0	0	0	0
471905 - Contributed Revenue	50,565	0	0	0	0
472117 - Late Payment Fee	3,063,168	0	0	0	0
472150 - Other Miscellaneous	263,741	0	0	0	0
472220 - Ng Check Service Charç	84,168	0	0	0	0
474100 - Miscellaneous Receipts	0	877,900	17,716	17,716	(860,184)
04828 - Revenue - Sewerage Receiving	319,800,925	365,968,200	368,248,616	368,248,616	2,280,416

**CITY OF DETROIT**  
**Budget Development for FY 2005-2006**  
**Appropriation Summary - Revenues**

	2003-04 Actuals	2004-05 Redbook	2005-06 Dept Final Request	2005-06 Mayor's Budget Rec	Variance
<b>A42000 - Sewerage Department</b>					
04829 - Revenue - Sewerage Operation - Mainten:					
461100 - Earnings On Investment	51,248	955,100	990,000	990,000	34,900
472150 - Other Miscellaneous	(2,909,067)	0	0	0	0
04829 - Revenue - Sewerage Operatior	(2,857,819)	955,100	990,000	990,000	34,900
00168 - Interest and Bond Redemption					
461100 - Earnings On Investment	445,867	5,221,600	4,493,500	4,493,500	(728,100)
00168 - Interest and Bond Redemption	445,867	5,221,600	4,493,500	4,493,500	(728,100)
00169 - Sewerage System Improvements					
461100 - Earnings On Investment	40,962	1,287,500	899,400	899,400	(388,100)
00169 - Sewerage System Improvemer	40,962	1,287,500	899,400	899,400	(388,100)
00443 - Extraordinary Repairs and Replacement					
461100 - Earnings On Investment	548,463	1,289,100	1,146,000	1,146,000	(143,100)
461101 - Unrealized Gain	(717,638)	0	0	0	0
00443 - Extraordinary Repairs and Rep	(169,175)	1,289,100	1,146,000	1,146,000	(143,100)
10267 - 1999 Sewerage Bond Series					
461100 - Earnings On Investment	(125,510)	0	0	0	0
10267 - 1999 Sewerage Bond Series	(125,510)	0	0	0	0
10726 - Sewer Bond Fund - Series 2001					
461100 - Earnings On Investment	271,185	0	0	0	0
10726 - Sewer Bond Fund - Series 200	271,185	0	0	0	0
11320 - Sewerage Bond Fund Series 2003					
461100 - Earnings On Investment	4,478,201	0	0	0	0
461101 - Unrealized Gain	(1,430,799)	0	0	0	0
472150 - Other Miscellaneous	(2,177,059)	0	0	0	0
11320 - Sewerage Bond Fund Series 20	870,343	0	0	0	0
11488 - Sewerage Bond Fund Series 2005					
522100 - Sale Of Bonds	0	275,000,000	0	0	(275,000,000)
11488 - Sewerage Bond Fund Series 20	0	275,000,000	0	0	(275,000,000)
<b>A42000 - Sewerage Department</b>	<b>322,692,108</b>	<b>730,409,600</b>	<b>392,948,116</b>	<b>392,948,116</b>	<b>(337,461,484)</b>
<b>Grand Total</b>	<b>322,692,108</b>	<b>730,409,600</b>	<b>392,948,116</b>	<b>392,948,116</b>	<b>(337,461,484)</b>

**CITY OF DETROIT**  
**MAYOR'S 2005/2006 RECOMMENDED BUDGET**

**Sewerage Department**

Appropriation	REDBOOK FY 2004	DEPT REQUEST	MAYORS FY 2005
Organization	2005 FTE	FY 2005 2006 FTE	2006 FTE
Classification			
<b>00089 - Administration</b>			
<b>421030 - Document Management</b>			
Admin Asst GD II - DWSD	1	1	1
Principal Clerk	2	2	2
Senior Clerk	1	1	1
Office Assistant III	1	0	0
Office Assistant II	1	1	1
Messenger	2	1	1
<b>Total Document Management</b>	<b>8</b>	<b>6</b>	<b>6</b>
<b>421070 - Safety</b>			
Principal Governmental Analyst	1	1	1
Sr Governmental Analyst	1	0	0
Revenue Collections Specialist	1	0	0
Offset Printer	1	0	0
Principal Clerk	2	2	2
Senior Clerk	2	0	0
<b>Total Safety</b>	<b>8</b>	<b>3</b>	<b>3</b>
<b>421090 - Office of Program Management Ass</b>			
Engineer of Water Systems	1	1	1
Admin Asst GD IV	1	1	1
Admin Asst GD III	1	1	1
Administrative Specialist I	1	1	1
Principal Governmental Analyst	3	3	3
Sr Governmental Analyst	3	3	3
Sr Asst Civil Eng - Wastewater	1	1	1
Head Clerk	1	1	1
Principal Clerk	2	1	1
Office Assistant III	2	1	1
Office Assistant II	2	2	2
Messenger	1	1	1
<b>Total Office of Program Management Assista</b>	<b>19</b>	<b>17</b>	<b>17</b>



**CITY OF DETROIT**  
**MAYOR'S 2005/2006 RECOMMENDED BUDGET**

**Sewerage Department**

Appropriation	REDBOOK FY 2004	DEPT REQUEST	MAYORS FY 2005
Organization	2005 FTE	FY 2005 2006 FTE	2006 FTE
Classification			
<b>00089 - Administration</b>			
<b>421100 - Print Shop</b>			
Supervisor of Printing	1	1	1
Duplicating Devices Operator	1	1	1
Offset Printer	1	1	1
<b>Total Print Shop</b>	<b>3</b>	<b>3</b>	<b>3</b>
<b>Total Administration</b>	<b>38</b>	<b>30</b>	<b>30</b>
<b>00162 - Wastewater Plant Operations</b>			
<b>425010 - Office of Assistant Director of Wastewater</b>			
Asst Dir -DWSD Wastewater Oper	1	1	1
Head Eng - Water Sys-Operation	1	1	1
Engineer of Wastewater Systems	1	1	1
Head Governmental Analyst	2	1	1
Office Assistant III	1	1	1
Manager I - DWSD	0	1	1
<b>Total Office of Assistant Director of Wastewater</b>	<b>6</b>	<b>6</b>	<b>6</b>
<b>425020 - Plant Administration</b>			
Chief Sewage Plant Engineer	1	1	1
Asst Chief - WWTP-Technical	1	1	1
Manager II - DWSD	1	1	1
Office Management Assistant	2	2	2
Administrative Specialist I	1	1	1
Admin Asst GD II - DWSD	2	2	2
Sr Governmental Analyst	2	2	2
Head Clerk	3	3	3
Principal Clerk	2	1	1
Senior Clerk	32	29	29
Office Assistant III	13	12	12
Sr Promotional Activities Asst	1	1	1
Water/Wastewater Sys Maint Eng	1	1	1
Engineer of Water Systems	6	6	6
Sr Assoc Civil Eng - Waste	5	5	5

**CITY OF DETROIT**  
**MAYOR'S 2005/2006 RECOMMENDED BUDGET**

**Sewerage Department**

Appropriation	REDBOOK FY 2004	DEPT REQUEST	MAYORS FY 2005
Organization	2005 FTE	FY 2005 2006 FTE	2006 FTE
Classification			
<b>00162 - Wastewater Plant Operations</b>			
<b>425020 - Plant Administration</b>			
Sewage Plant Opr Super	2	2	2
Sr Assoc Mech Eng - Waste	3	3	3
Associate Civil Eng - Design	10	10	10
Assoc Mech Eng -Wastewater Sys	9	9	9
Sr Assoc Elect Eng - Waste	7	7	7
Eng Support Specialist II	3	2	2
Eng Support Specialist I	1	0	0
Senior Water Systems Chemist	18	17	17
Water Systems Chemist	45	45	45
Senior Analytical Chemist	10	10	10
Analytical Chemist	34	31	31
Microbiologist	5	5	5
Drafting Technician III	1	1	1
Drafting Technician II	3	3	3
Building Operator II	10	10	10
Assoc Elect Eng - Design	4	4	4
Wastewater Systems Trng Sprv	1	1	1
Principal Training Specialist	1	1	1
Senior Training Specialist	2	2	2
Plant Maintenance Sr Foreman	7	7	7
Plant Maintenance Foreman	21	21	21
Plant Maintenance Sub-Foreman	17	17	17
Plant Maintenance Mechanic	54	54	54
Repair Mechanic	30	30	30
Mechanical Helper	15	12	12
Water Sys Cntrl Instr Tech	28	17	17
Control Instru Tech -Foreman	2	1	1
Cont Instr Tech Sub-Foreman-Wa	10	8	8
Wastewater Treatment Plant Tec	8	8	8
Water Systems Laboratory Aid	3	3	3
HVAC Systems Repair Tech	2	0	0

**CITY OF DETROIT**  
**MAYOR'S 2005/2006 RECOMMENDED BUDGET**

**Sewerage Department**

Appropriation	REDBOOK FY 2004	DEPT REQUEST	MAYORS FY 2005
Organization	2005 FTE	FY 2005 2006 FTE	2006 FTE
Classification			
<b>00162 - Wastewater Plant Operations</b>			
<b>425020 - Plant Administration</b>			
Elect Worker Foreman	1	1	1
Elect Worker Sub-Foreman	7	7	7
Elect Worker - General	32	32	32
Elect Repair Worker - General	6	6	6
Maintenance Millwright	10	10	10
Electrical Helper	1	1	1
General Welder	4	4	4
Finish Carpenter	4	4	4
Bricklayer	4	4	4
Master Plumber	1	1	1
Plumber	24	24	24
Steamfitter	3	3	3
Supervising Bldg Attendant I	2	2	2
Senior Building Attendant	2	2	2
Building Attendant A	30	28	28
Park Maintenance Foreman	2	2	2
Park Maintenance Worker	6	6	6
Park Maintenance Helper	2	2	2
WWTP Maintenance Superintenden	1	1	1
Wastewater Plant General Sprv	1	1	1
Sewage Plant Laboratory Sprv	2	2	2
Asst Sewage Plant Oper Super	1	1	1
Asst Sewage Plant Lab Sprv	5	4	4
Sewage Plant Supervisor	7	7	7
Head Sewage Plant Operator	22	22	22
Asst Head Sewage Plant Oper	69	60	60
Sr Sewage Plant Operator	11	11	11
Wastewater Process Controller	11	11	11
Sewage Plant Operator	130	130	130
Sewage Plant Attendant	113	102	102
Vehicle Operator I	4	4	4

**CITY OF DETROIT**  
**MAYOR'S 2005/2006 RECOMMENDED BUDGET**

**Sewerage Department**

Appropriation	REDBOOK FY 2004	DEPT REQUEST	MAYORS FY 2005
Organization	2005 FTE	FY 2005 2006 FTE	2006 FTE
Classification			
<b>00162 - Wastewater Plant Operations</b>			
<b>425020 - Plant Administration</b>			
Delivery - Driver	3	3	3
<b>Total Plant Administration</b>	<b>960</b>	<b>907</b>	<b>907</b>
<b>425140 - I. W. C. Field Monitoring</b>			
Manager I - DWSD	1	1	1
Admin Asst GD II - DWSD	1	1	1
Administrative Specialist I	1	1	1
Indus Waste Control Mgr	1	1	1
Sprv of Indust Waste Control	2	2	2
Engineer of Water Systems	1	1	1
Chemical Engineer	2	2	2
Sr Assoc Chem Eng-Indust Waste	4	4	4
Assoc Chem Eng-Wastewater Sys	12	12	12
Sr Asst Chem Eng Indust Waste	13	12	12
Database Administrator	1	0	0
Sr Indus Wastewater System	5	5	5
Principal Governmental Analyst	2	2	2
Sr Governmental Analyst	4	3	3
Office Management Assistant	1	1	1
Head Clerk	1	1	1
Principal Clerk	2	2	2
Senior Clerk	4	4	4
Office Assistant III	3	3	3
Senior Stenographer	1	1	1
Office Assistant II	2	1	1
Clerk	1	1	1
Eng Support Specialist II	9	8	8
Environmental Specialist III	2	2	2
Environmental Specialist II	4	3	3
Head Constr Inspector - DWSD	2	2	2
Water Systems Investigator	15	15	15
Asst Water Sys Investigator	15	15	15

**CITY OF DETROIT**  
**MAYOR'S 2005/2006 RECOMMENDED BUDGET**

**Sewerage Department**

Appropriation	REDBOOK FY 2004	DEPT REQUEST	MAYORS FY 2005
Organization	2005 FTE	FY 2005 2006 FTE	2006 FTE
Classification			
<b>00162 - Wastewater Plant Operations</b>			
<b>425140 - I. W. C. Field Monitoring</b>			
Plant Maintenance Sr Foreman	2	2	2
Bldg Oper Sprv - Grade II	1	1	1
Water Sys Cntrl Instr Tech	2	0	0
Senior Building Attendant	1	1	1
Building Attendant A	2	2	2
<b>Total I. W. C. Field Monitoring</b>	<b>120</b>	<b>112</b>	<b>112</b>
<b>Total Wastewater Plant Operations</b>	<b>1,086</b>	<b>1,025</b>	<b>1,025</b>
<b>05831 - Engineering Services - Sewage</b>			
<b>423020 - Engineering Administrative Service</b>			
Head Eng - Water Sys - Design	1	1	1
Head Civil Eng - Field	1	1	1
Engineer of Water Systems	5	5	5
Electrical Eng - Design	1	1	1
Sr Assoc Civil Eng - Design	11	9	9
Sr Assoc Elect Eng - Design	4	4	4
Sr Assoc Mech Eng - Design	6	6	6
Associate Civil Eng - Design	10	8	8
Assoc Elect Eng - Design	5	4	4
Assoc Mech Eng - Design	5	5	5
Sr Asst Civil Eng - Wastewater	14	14	14
Sr Asst Mech Eng - Wastewater	5	5	5
Sr Asst Mech Eng - Design	1	1	1
Sr Asst Elect Eng - Wastewater	6	6	6
Sr Asst Elect Eng - Design	1	1	1
Assistant Civil Engineer	2	2	2
Assistant Mechanical Engineer	1	1	1
Drafting Technician IV	1	1	1
Drafting Technician III	6	6	6
Sr Geograph Info Sys Supp Tech	3	3	3
Prin Data Proc Prog Analyst	1	1	1
Eng Support Specialist II	6	6	6

**CITY OF DETROIT**  
**MAYOR'S 2005/2006 RECOMMENDED BUDGET**

**Sewerage Department**

Appropriation	REDBOOK FY 2004	DEPT REQUEST	MAYORS FY 2005
Organization	2005 FTE	FY 2005 2006 FTE	2006 FTE
Classification			
<b>05831 - Engineering Services - Sewage</b>			
<b>423020 - Engineering Administrative Service</b>			
Eng Support Specialist I	4	1	1
Student Eng GD II Civil LTD	1	1	1
Head Constr Inspector - DWSD	3	3	3
Prin Construct Inspector-DWSD	6	4	4
Sr Construction Inspector	21	16	16
Construction Inspector	6	5	5
Sewer Systems Sprv Insp	1	1	1
Sewer Inspector - Video Equip	3	0	0
Asst Sewer Inspector -Video Eq	3	0	0
Sewer Safety Inspector	3	0	0
Asst Sewer Safety Inspector	1	0	0
Sewer Safety Helper	9	0	0
Principal Clerk	2	1	1
Office Assistant III	5	4	4
Senior Clerk	2	2	2
Office Assistant II	7	3	3
Clerk	5	3	3
<b>Total Engineering Administrative Services</b>	<b>178</b>	<b>135</b>	<b>135</b>
<b>Total Engineering Services - Sewage</b>	<b>178</b>	<b>135</b>	<b>135</b>
<b>Agency Total</b>	<b>1,302</b>	<b>1,189</b>	<b>1,189</b>